

Title (en)

DEVICE FOR HAPTIC INTERFACE WITH REDUCED NO-LOAD TORQUE

Title (de)

VORRICHTUNG FÜR HAPTISCHE SCHNITTSTELLE MIT REDUZIERTEM NULLLASTDREHMOMENT

Title (fr)

DISPOSITIF POUR INTERFACE HAPTIQUE À COUPLE À VIDE RÉDUIT

Publication

**EP 3201933 A1 20170809 (FR)**

Application

**EP 15770905 A 20150929**

Priority

- FR 1459183 A 20140929
- EP 2015072318 W 20150929

Abstract (en)

[origin: WO2016050719A1] The invention relates to a device for a rotary haptic interface comprising a rotary button (2) and an interaction member (8) for interacting with a magnetorheological fluid, said rotary button and interaction member being secured to a shaft (4) for rotation therewith, a chamber defined by walls and containing said fluid and said interaction element (8), and means for generating a variable magnetic field (18). The element for interaction with the fluid (8) comprises a skirt (16) surrounding the shaft (4), said skirt (16) being secured to a longitudinal end of the shaft (4) opposite the end to which the rotary button (2) is secured, and extending from said first end towards the rotary button (2). The shaft (4) passes through a single wall of the chamber and a sealing means is arranged between the shaft and said wall. Means for guiding the rotation of the shaft are arranged around the shaft between the sealing means and the rotary button.

IPC 8 full level

**F16F 9/53** (2006.01); **G06F 3/01** (2006.01); **H01H 3/00** (2006.01); **H01H 19/00** (2006.01)

CPC (source: CN EP US)

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Citation (search report)

See references of WO 2016050719A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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**FR 3026552 A1 20160401**; **FR 3026552 B1 20171222**; CN 107077210 A 20170818; EP 3201933 A1 20170809; EP 3201933 B1 20200722; JP 2017532680 A 20171102; JP 6649373 B2 20200219; US 10436277 B2 20191008; US 2018231093 A1 20180816; WO 2016050719 A1 20160407

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